In the Claims

1 (Withdrawn). A method of targeting integration of a transgene comprising retrovirus-like nucleic acid into a eukaryotic genome, in which the genome is targeted by a restriction enzyme that binds nucleic acid and the transgene is introduced at the binding site, wherein the endonuclease is specific to a site in an abundant rDNA locus and is fused to an integrase that mediates the introduction of the transgene.

- 2 (Withdrawn). The method according to claim 1, wherein the genome is human.
- 3 (Withdrawn). The method according to claim 1, wherein the integrase is a lentivirus integrase.
 - 4 (Withdrawn). The method according to claim 3, wherein the integrase is a HIV-1 integrase.
 - 5 (Withdrawn). The method according toclaim 1, wherein the endonuclease is I-PpoI.
- 6 (Currently amended). A fusion protein which comprises an endonuclease as defined in claim 1 fused to an integrase as defined in claim 1, wherein the endonuclease is specific to a site in an abundant rDNA locus and is fused to an integrase that mediates the introduction of a transgene comprising retrovirus-like nucleic acid.
- 7 (Previously presented). The fusion protein according to claim 6, which comprises an HIV-1 integrase and I-PpoI.
- 8 (Withdrawn). The method according to claim 2, wherein the integrase is a lentivirus integrase.

- 9 (Withdrawn). The method according to claim 8, wherein the integrase is an HIV-1 integrase.
 - 10 (Withdrawn). The method according to claim 2, wherein the endonuclease is I-PpoI.
 - 11 (Withdrawn). The method according to claim 3, wherein the endonuclease is I-PpoI.
 - 12 (Withdrawn). The method according to claim 4, wherein the endonuclease is I-PpoI.
 - 13 (Withdrawn). The method according to claim 8, wherein the endonuclease is I-PpoI.
 - 14 (Withdrawn). The method according to claim 9, wherein the endonuclease is I-PpoI.
 - 15 (New). The fusion protein according to claim 6, wherein the endonuclease is I-Ppol.
 - 16 (New). The fusion protein according to claim 6, wherein the endonuclease is Crel.
 - 17 (New). The fusion protein according to claim 6, wherein the endonuclease is H98A.
- 18 (New). The fusion protein according to claim 6, wherein the integrase is a lentivirus integrase.